

Prevention Quality Indicator 11 (PQI 11) Community-Acquired Pneumonia Admission Rate

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Area-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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qualityindicators.ahrq.gov

DESCRIPTION

Hospitalizations with a principal diagnosis of community acquired bacterial pneumonia per 100,000 population, ages 18 years or older. Excludes hospitalizations with sickle cell, hemoglobin-S disease admissions, other indications of immunocompromised state, obstetric hospitalizations, and transfers from other institutions.

[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report hospitalizations per 100,000 population.]

NUMERATOR

Hospital discharges, for patients ages 18 years and older, with a principal ICD-10-CM diagnosis code for community acquired pneumonia (**ACSBACD** *).

[NOTE: Obstetric discharges are not included in the PQI rate for PQI 11, though the AHRQ QI™ software does not explicitly exclude obstetric cases. By definition, discharges with a principal diagnosis of bacterial pneumonia exclude obstetric discharges, because the principal diagnosis for an obstetric discharge would identify it as obstetric hospitalizations, and no such diagnoses are included in the set of qualifying diagnoses.]

NUMERATOR EXCLUSIONS

Exclude discharges:

- with any listed ICD-10-CM diagnosis code for sickle cell or Hemoglobin S disease (*ACSBA2D**)
- with any listed ICD-10-CM diagnosis code for immunocompromised state (*Appendix C: IMMUNID*) or any listed ICD-10-PCS procedure code for immunocompromised state (*Appendix C: IMMUNIP*)
- with admission source for transferred from a different hospital or other health care facility (*Appendix A*) (UB04 Admission source - 2, 3)
- with a point of origin code for transfer from a hospital, skilled nursing facility (SNF) or intermediate care facility (ICF), or other healthcare facility (*Appendix A*) (UB04 Point of Origin - 4, 5, 6)
- with an ungroupable DRG (DRG=999)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)
- with missing MDC (MDC=missing) when the user indicates that MDC is provided

[Appendix A – Admission Codes for Transfers](#)

[Appendix C - Immunocompromised State Diagnosis and Procedure Codes](#)

DENOMINATOR

Population ages 18 years and older in metropolitan area¹ or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred.

¹ The term “metropolitan area” (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs), and primary metropolitan statistical areas (PMSAs). In addition, “area” could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area, or 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.

* See below for code list

Community acquired pneumonia diagnosis codes: (ACSBACD)

J13	Pneumonia due to streptococcus pneumoniae	J159	Unspecified bacterial pneumonia
J14	Pneumonia due to hemophilus influenzae	J160	Chlamydial pneumonia
J15211	Pneumonia due to methicillin susceptible staphylococcus aureus	J168	Pneumonia due to other specified infectious organisms
J15212	Pneumonia due to methicillin resistant staphylococcus aureus	J180	Bronchopneumonia, unspecified organism
J153	Pneumonia due to streptococcus, group B	J181	Lobar pneumonia, unspecified organism
J154	Pneumonia due to other streptococci	J188	Other pneumonia, unspecified organism
J157	Pneumonia due to mycoplasma pneumoniae	J189	Pneumonia, unspecified organism

Sickle cell anemia or HB-S disease diagnosis codes: (ACSBA2D)

D5700	Hb-SS disease with crisis, unspecified	D57431	Sickle-Cell thalassemia beta zero with acute chest syndrome
D5701	Hb-SS disease with acute chest syndrome	D57432	Sickle-Cell thalassemia beta zero with splenic sequestration
D5702	Hb-SS disease with splenic sequestration	D57433	Sickle-Cell thalassemia beta zero with cerebral vascular involvement
D571	Sickle-Cell disease without crisis	D57438	Sickle-Cell thalassemia beta zero with crisis with other specified complication
D5720	Sickle-Cell/Hb-C disease without crisis	D57439	Sickle-Cell thalassemia beta zero with crisis, unspecified
D57211	Sickle-Cell/Hb-C disease with acute chest syndrome	D5744	Sickle-Cell thalassemia beta plus without crisis
D57212	Sickle-Cell/Hb-C disease with splenic sequestration	D57451	Sickle-Cell thalassemia beta plus with acute chest syndrome
D57213	Sickle-Cell/Hb-C disease with cerebral vascular involvement	D57452	Sickle-Cell thalassemia beta plus with splenic sequestration
D57218	Sickle-Cell/Hb-C disease with crisis with other specified complication	D57453	Sickle-Cell thalassemia beta plus with cerebral vascular involvement
D57219	Sickle-Cell/Hb-C disease with crisis, unspecified	D57458	Sickle-Cell thalassemia beta plus with crisis with other specified complication
D5740	Sickle-Cell thalassemia without crisis	D57459	Sickle-Cell thalassemia beta plus with crisis, unspecified
D57411	Sickle-Cell thalassemia, unspecified, with acute chest syndrome	D5780	Other sickle-cell disorders without crisis
D57412	Sickle-Cell thalassemia, unspecified, with splenic sequestration	D57811	Other sickle-cell disorders with acute chest syndrome
D57413	Sickle-Cell thalassemia, unspecified, with cerebral vascular involvement	D57812	Other sickle-cell disorders with splenic sequestration
D57418	Sickle-Cell thalassemia, unspecified, with crisis with other specified complication	D57813	Other sickle-cell disorders with cerebral vascular involvement
D57419	Sickle-Cell thalassemia, unspecified, with crisis	D57818	Other sickle-cell disorders with crisis with other specified complication
D5742	Sickle-Cell thalassemia beta zero without crisis	D57819	Other sickle-cell disorders with crisis, unspecified